



TDOT

Department of
Transportation

**Welcome to the webinar!
We'll begin shortly.**

I-40/81 Multimodal Corridor Study

Round 2 Virtual Public Meetings

December 10, 2020



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I-40/81 Multimodal Corridor Study

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TODAY'S AGENDA



CORRIDOR STUDY

- Study Purpose
- Types of Needs Identified on I-40 and I-81
- Recommended Solutions
- Discussion / Questions

STUDY PURPOSE



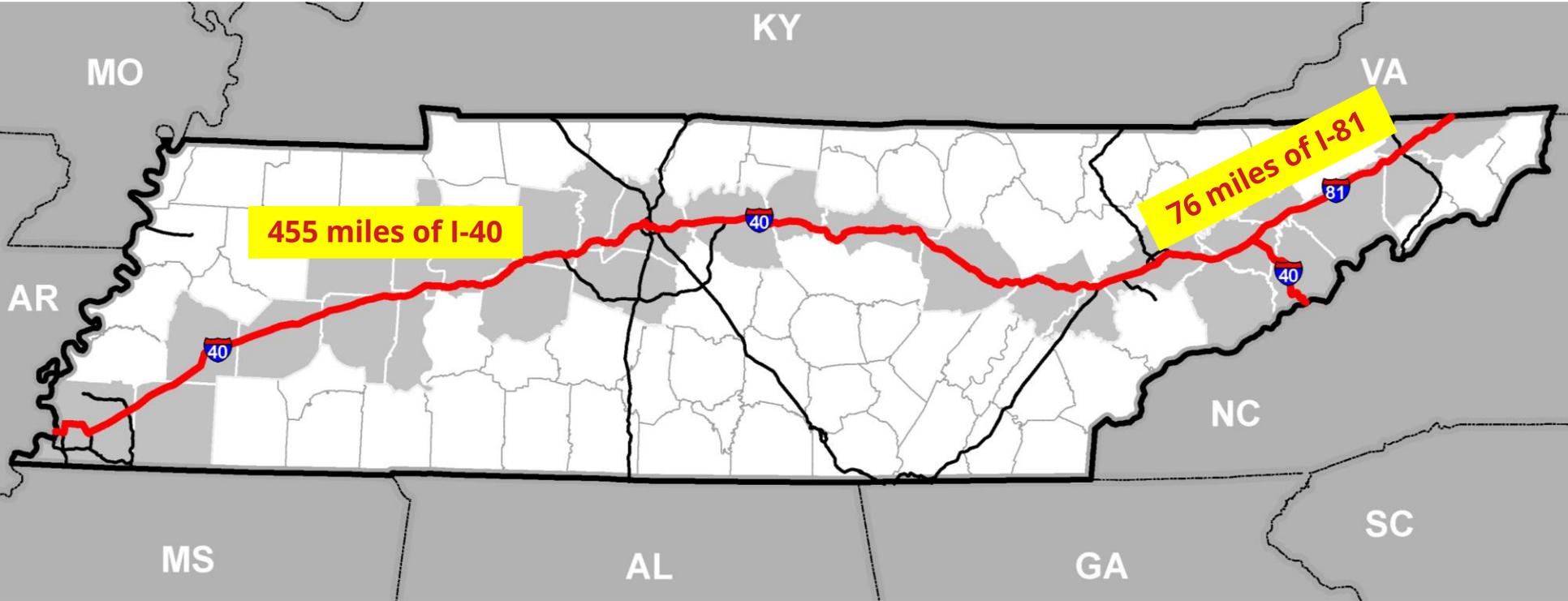
WHAT THIS STUDY IS:

- ✓ A 20-year, phased set of recommended transportation improvements for the I-40 and I-81 corridors

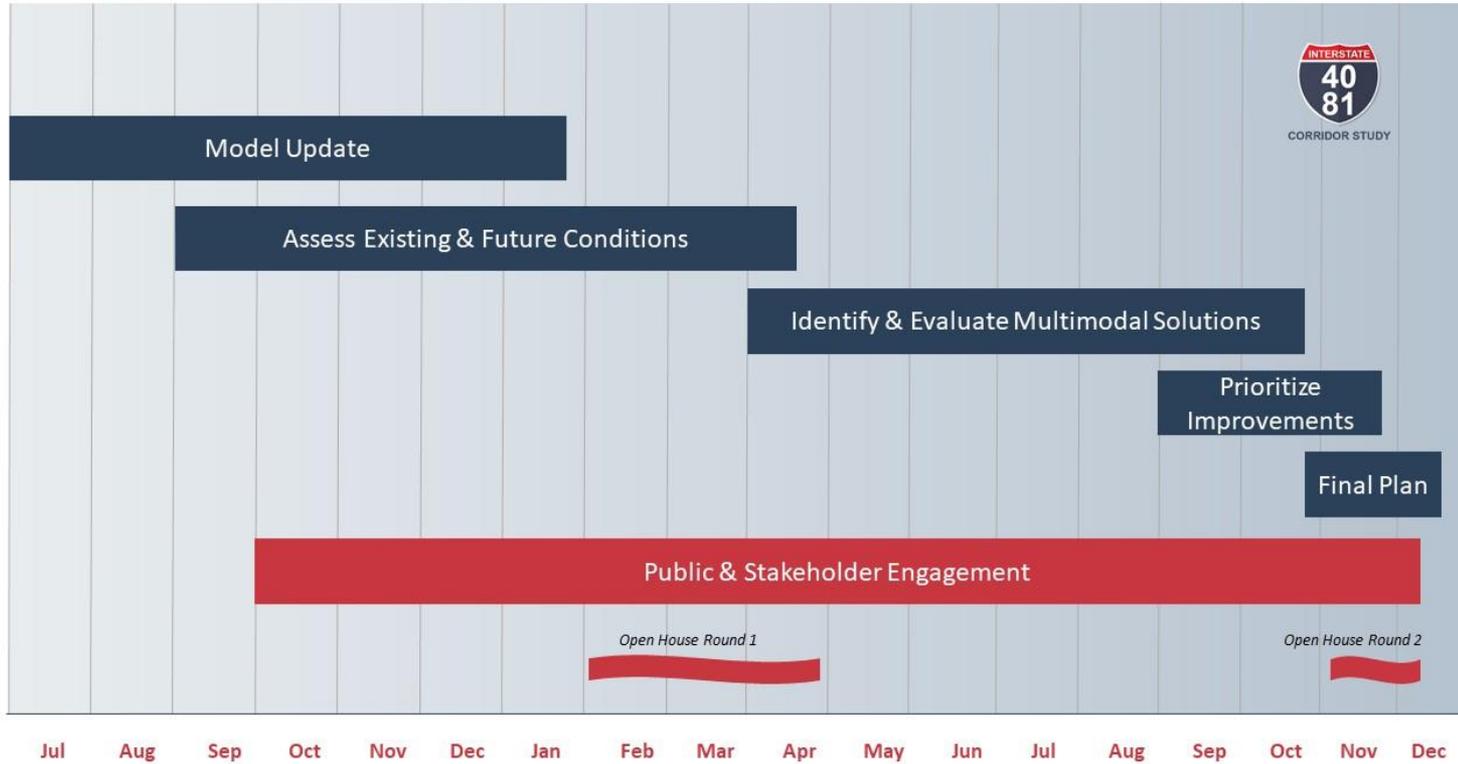
PURPOSE:

- ✓ Guidance for decision-makers regarding future projects
- ✓ Promote coordination with stakeholders on the future of this corridor

CORRIDOR STUDY AREA



STUDY TIMELINE



RECOMMENDED SOLUTION TYPES



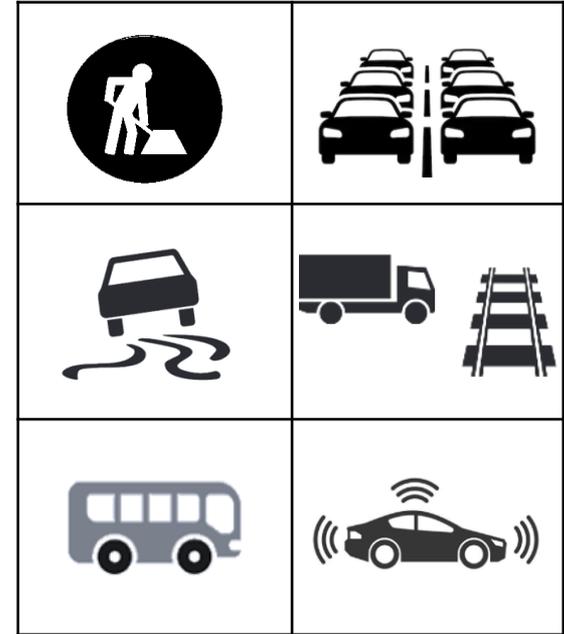
Highway Expansion

Safety

Transportation Systems Management & Operations

Freight

Transit



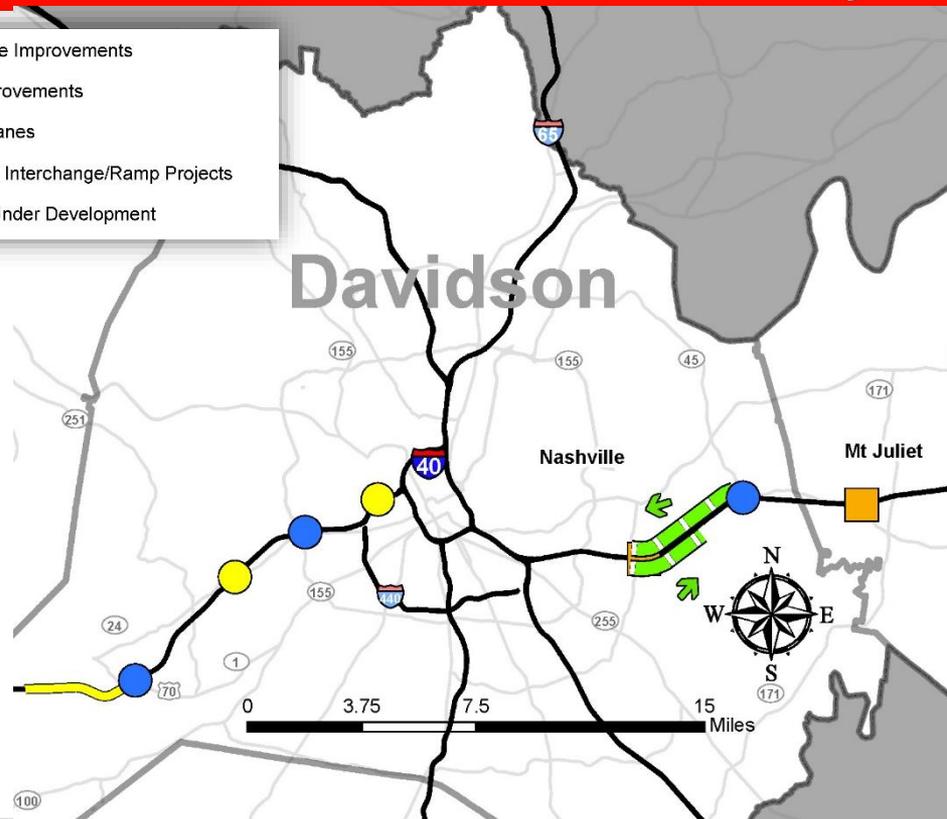
RECOMMENDED HIGHWAY IMPROVEMENTS



I-40, Nashville area

- Exit 196 (Bellevue, US 70S) – ramp improvements
- Exit 201 (Charlotte Pike) – interchange upgrade
- Exit 205 (Briley Pkwy/White Bridge Rd) – ramp improvements
- Exit 207 (Jefferson St/28th Ave. N) – interchange upgrade
- Auxiliary lanes:
 - Eastbound from Exit 216 (Donelson Pk) to Exit 219 (Stewarts Ferry Pk)
 - Westbound from Exit 216 (Donelson Pk) to entrance ramp from Old Hickory Blvd
- Exit 221 (Old Hickory Blvd) – ramp improvements

- Potential Interchange Improvements
- Potential Ramp Improvements
- ▬ Potential Auxiliary Lanes
- Under Development Interchange/Ramp Projects
- ▬ Roadway Projects Under Development



RECOMMENDED HIGHWAY IMPROVEMENTS



West of Inner Loop

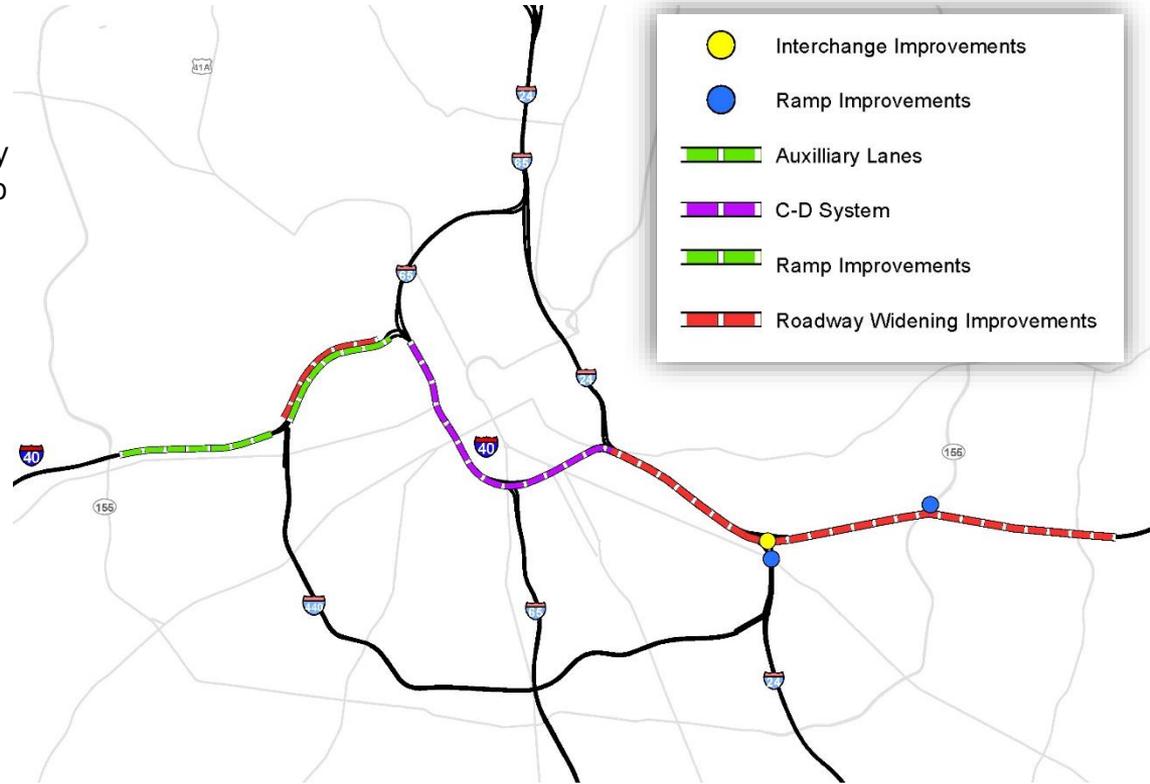
- Westbound, widen I-40 from I-65 to I-440
- Eastbound, create auxiliary lane from Briley Pkwy Exit 206 (I-40/440) by extending Briley Pkwy ramp
- Eastbound, add auxiliary lane between I-440 on-ramp and I-65 off-ramp

Inner Loop

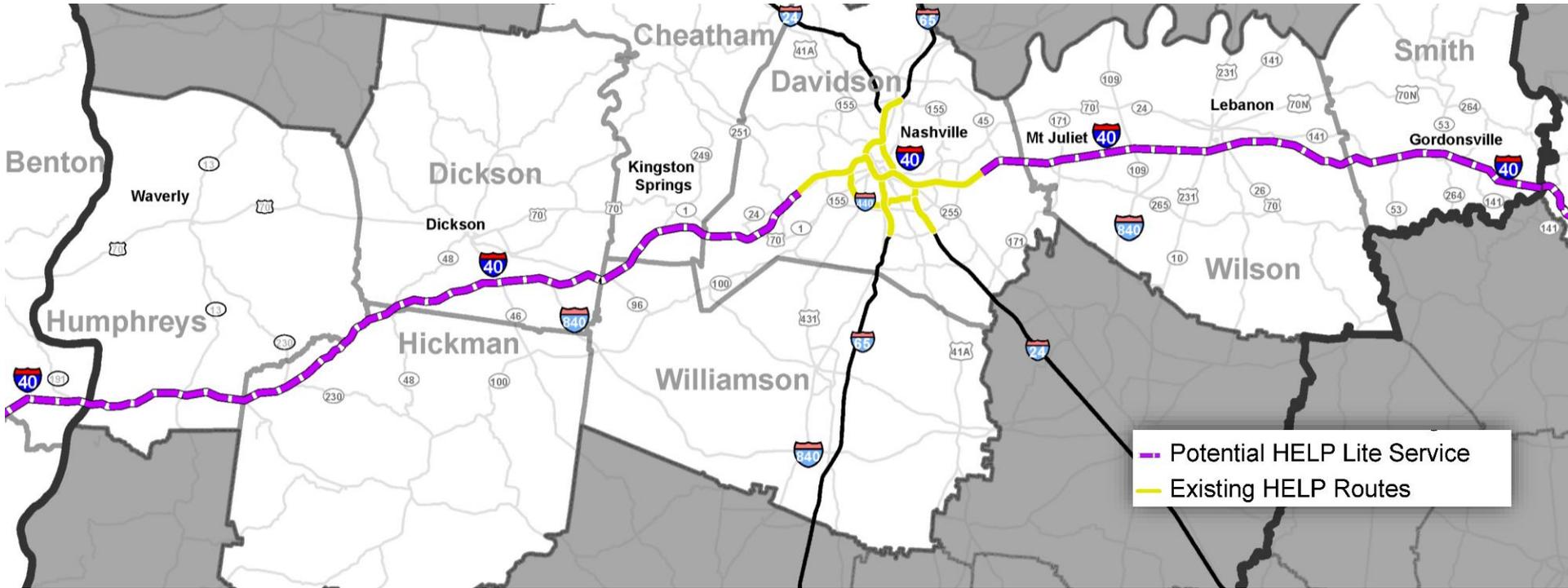
- Collector-distributor road system through downtown

East of Inner Loop

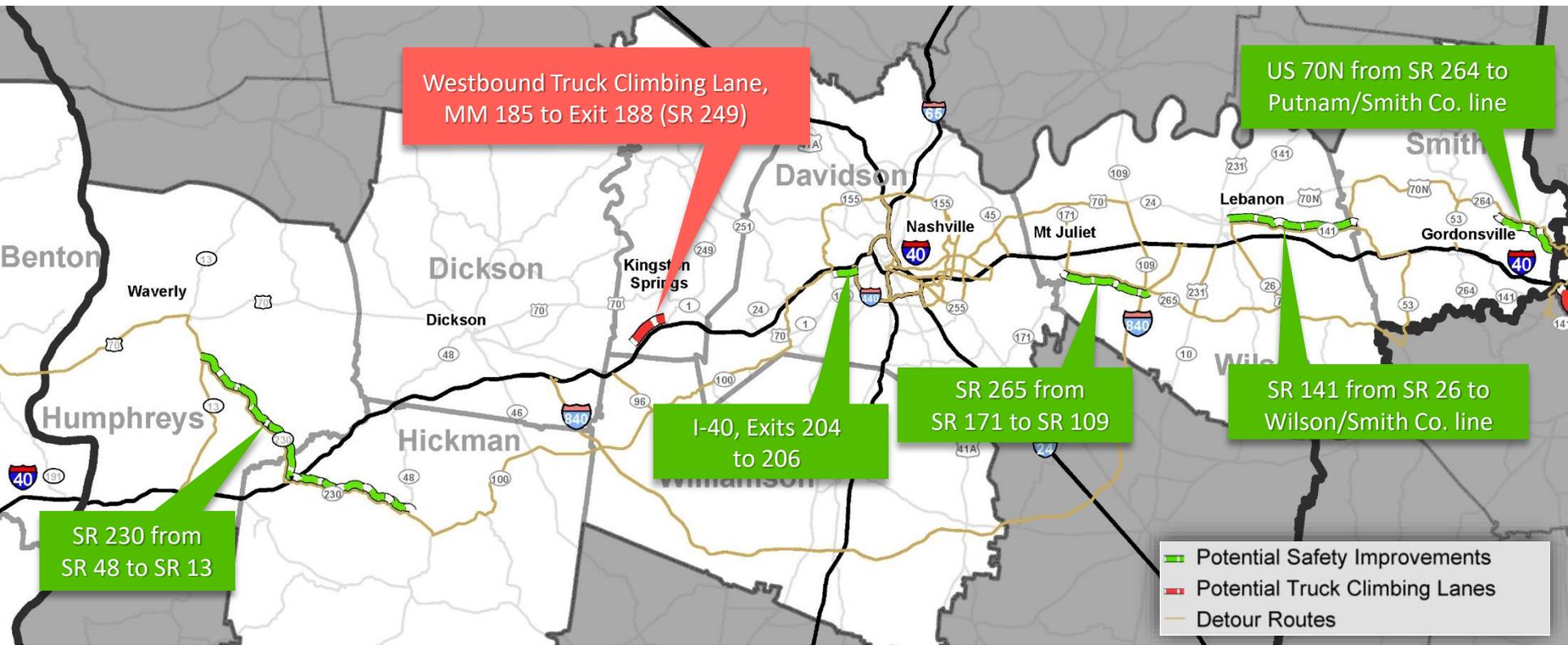
- Widen I-40/24 to newly relocated Donelson Pike interchange
- Improvements to I-40/24/440 junction
- Ramp improvements at Briley Pkwy northbound
- Reconfigure ramps at Murfreesboro Pk



RECOMMENDED SAFETY IMPROVEMENTS



RECOMMENDED SAFETY IMPROVEMENTS



TSMO

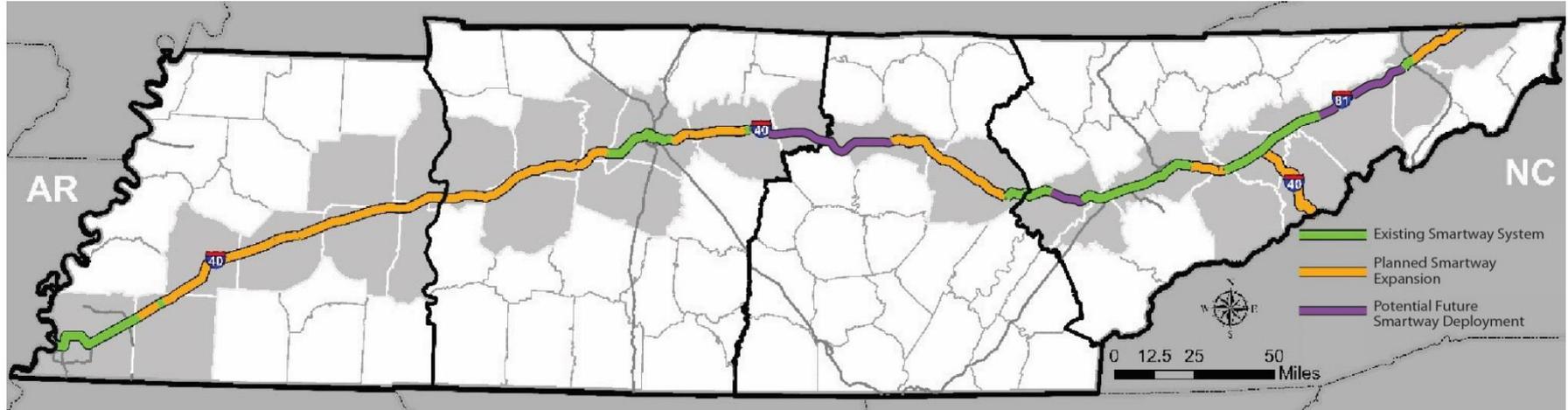
- Management of transportation facilities with strategies to maximize their existing efficiency
- Often involves technology – but not always
- Can delay the need to physically expand the facility

Examples of TSMO strategies:

- ✓ Real-time traveler information
- ✓ Integrated corridor management (ICM)
- ✓ Managed lanes
- ✓ Ramp metering



RECOMMENDED SMARTWAY EXPANSION



I-40 WB @ Old Hickory Boulevard (Hermitage) (MM 221.22) (R3_113)



Smartway Expansion includes:

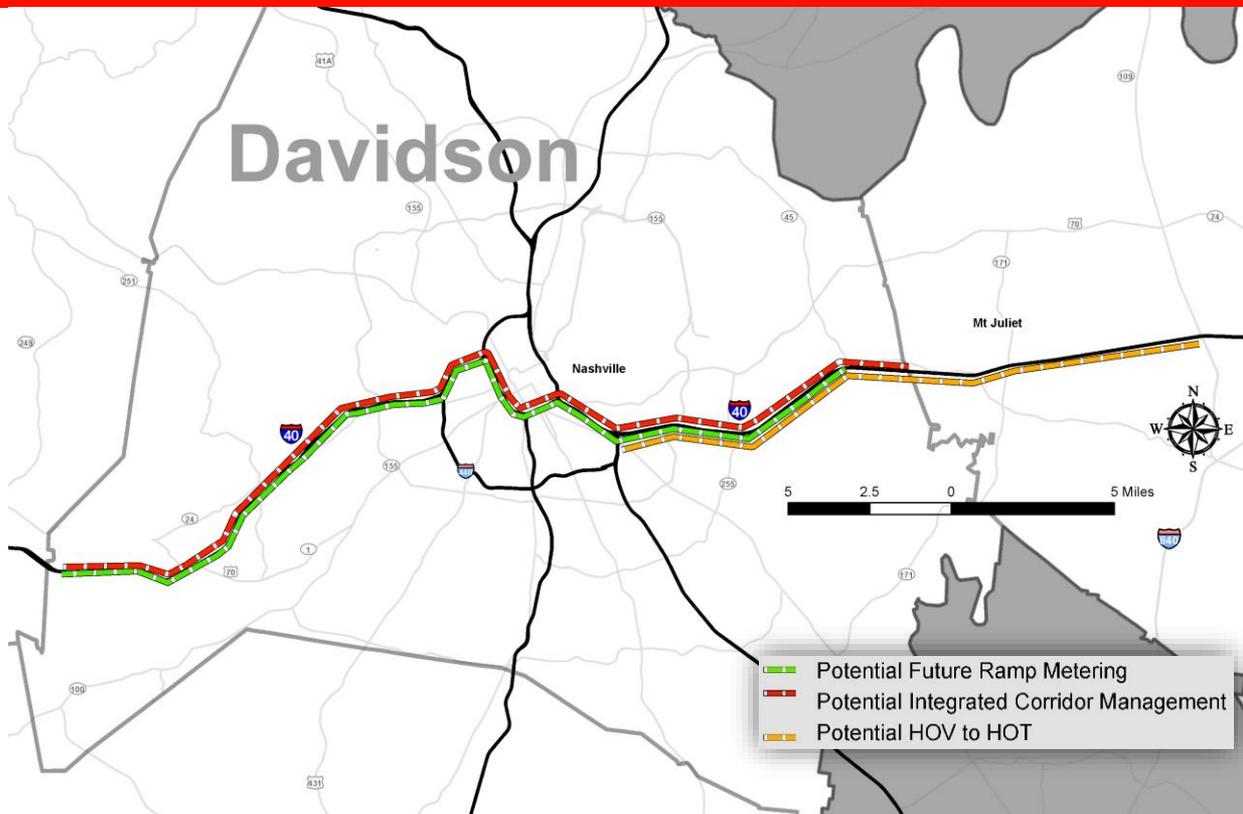
- Radar speed detection
- Roadway weather sensors
- CCTV cameras
- Dynamic message signs

RECOMMENDED TSMO STRATEGIES

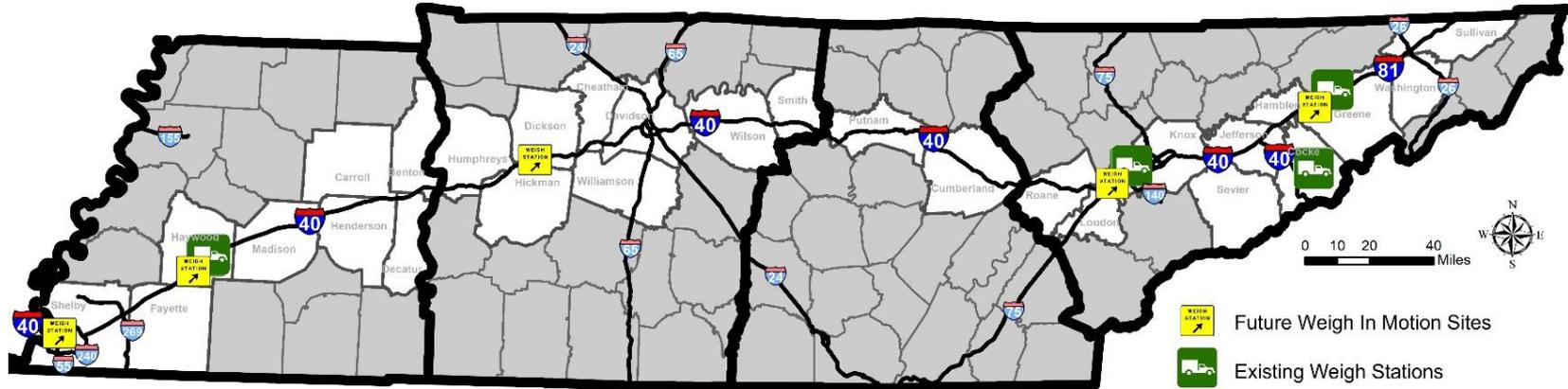


I-40, Nashville area

- Integrated Corridor Management from Exit 192 (McCormy Ln) to Exit 221 (Old Hickory Blvd)
- Potential HOV to HOT lane conversion, east side of Nashville (Exit 216, Briley Pkwy to Exit 232, SR 109)
- Potential ramp metering from Exit 192 (McCormy Ln) to Exit 221 (Old Hickory Blvd)



WEIGH IN MOTION TECHNOLOGY



Future Weigh in Motion sites on I-40 and I-81:

- Shelby County
- Haywood County
- Dickson County
- Knox County
- Greene County

ELECTRIC VEHICLES / ALTERNATIVE FUELS



Legend

Alternative Fuel Corridors

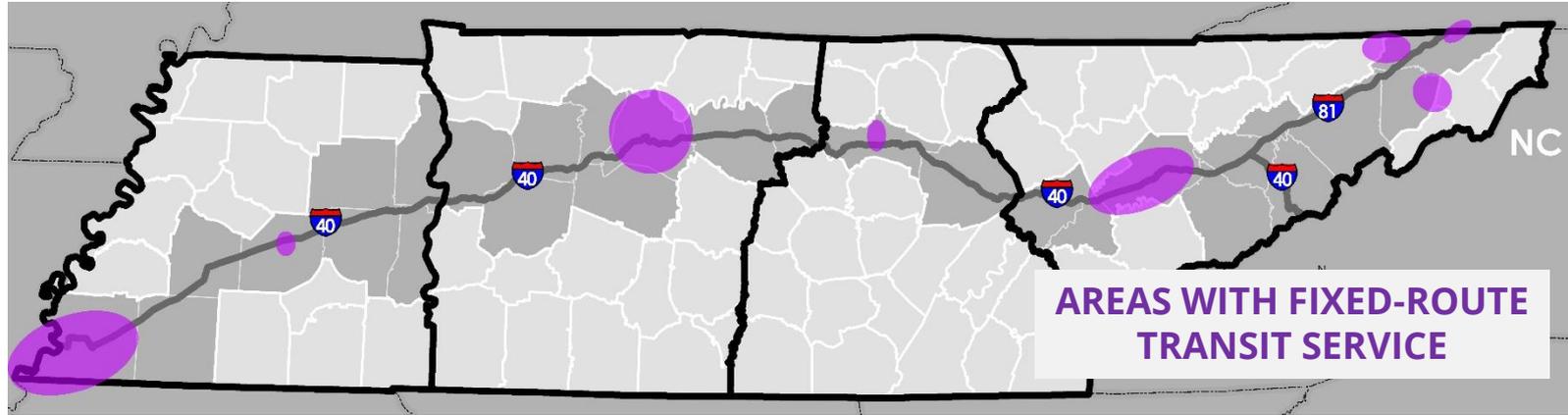
— EV Corridor Ready

— EV Corridor Pending

National EV “Corridor Ready” guidelines:

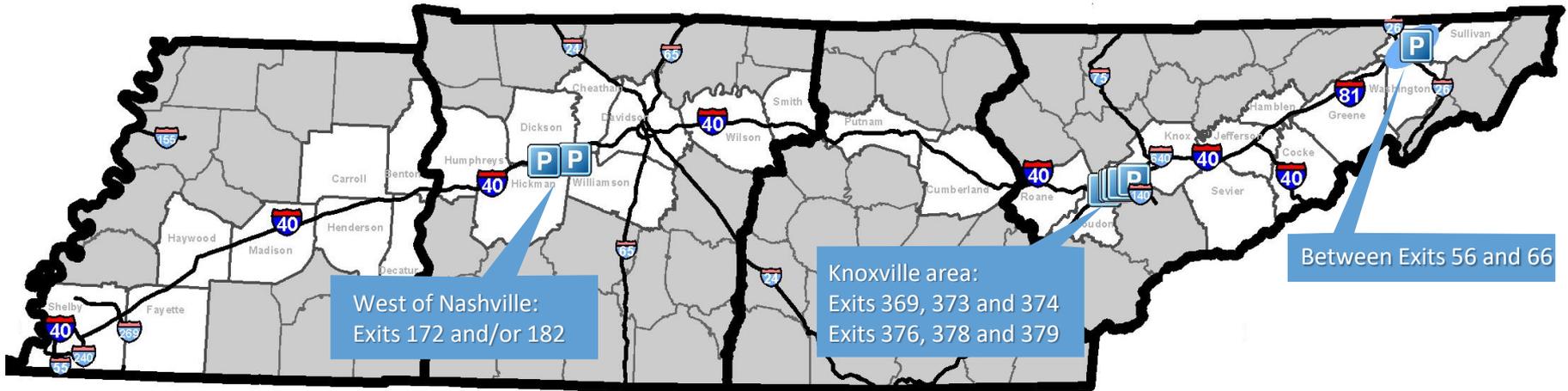
- Public DC fast charging stations at least every 50 miles
- Stations no farther than 5 miles off the corridor
- Equipped with multiple connector types

TRANSIT SERVICE



- Intercity services
- Regional services
- Carpool, vanpool programs

FUTURE PARK AND RIDE FACILITIES



HOW TO SHARE YOUR INPUT



Q&A session at today's virtual meeting

Visit the project website:

www.tn.gov/tdot/i-40-81-study.html

Take our survey:

<https://www.surveymonkey.com/r/I4081Study>

Contact TDOT:

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Send Letter to TDOT:

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Nashville, TN 37243-0349

DISCUSSION, QUESTIONS, COMMENTS

